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(54) CELL-SPECIFIC GENETIC THERAPY USING
NEW PROMOTER FOR TISSUE INHIBITOR OF
METALLOPROTEINASE-3

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(57) Abstract:

PROBLEM TO BE SOLVED: To obtain a new promoter made up from a promoter-activating DNA fragment comprising a specific nucleotide sequence and effective for the gene of a metalloproteinase-3 tissue inhibitor used for a cell-specific genetic therapy, etc.

SOLUTION: This new promoter effective for the gene of a metalloproteinase-3 tissue inhibitor made up from a promoter-activating DNA fragment comprising the positions 2463 to 32 units of a nucleotide sequence of the formula. The new promoter is useful for a target cell-specific genetic therapy, a genetic diagnosis, etc. The promoter is obtained by isolating a genome DNA from a culture cell, WI-38 cell, making a gene library from the genome DNA by a conventional method, screening the library with a 30bp-long oligonucleotide obtained from the 5'-end region of the cDNA of the tissue inhibitor of the metalloproteinase-3, and subsequently treating the obtained DNA with a restriction enzyme.

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-100  ATGCTGCT  ATGCTGCT  ATGCTGCT  ATGCTGCT  C  I  CAGCTGCT
-140  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT
-180  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT
-220  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT
      (P)
-260  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT
-300  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT
      Sp1  Sp1
-340  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT
      Sp1  C/EBP
-380  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT
      Sp1  Sp1
-420  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT  GAGCTGCT

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